

## **Core Java**

### **1.Introduction**

- Introduction to programming
- Introduction to java
- JDK installation
- Keywords, Identifiers, variables
- Operators
- Method/Functions
- DataTypes
- Interactive programs in java using Scanner
- Strings
- Flow Control Statement
  - Condition Statement
  - Looping
  - Nested Loopig
  - Enhanced for loop

### **2.Object Oriented Programming System**

- Classes and Objects
- Object creation
- Reference variable
- Global and local variables
- Constructors
- Inheritance
- Inheritance Types
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces
- Typecasting
- Polymorphism
- Abstraction
- Java packages
- Access Specifies
- Access Modifier

### **3.Java Built-in packages and API**

- Overview of java API
- Object class
- String, String Buffer and String Builder

- Exception Handling
- Wrapper Classes
- Constructor
- Constructor Chaining
- this() and Super() keyword

#### **4.JAVA COLLECTION FRAMEWORKS**

- File Handling
- Singleton
- Garbage Collector
- Array

Single Dimensional , Multi Dimensional

- List
  - Methods of List Types of list
- Set
  - D/W List and Set,Types of Set
- Map
  - Methods of Map
  - Types of Map
  - Iteration of Map
- Encapsulation